

FIG. 1

[88.0% / 935 aa]

1' M Q N S A M K P W L D S S W L A G A N Q S Y I E Q L Y E D F L T D P D S V D A V M R S M F Q Q L P G T G V K P E Q F H S  
1" M Q N S A L K A W L D S S Y L S G A N Q S W I E Q L Y E D F L T D P D S V D A N W R S T F Q Q L P G T G V K P D Q F H S  
61' A T R E Y F R R L A K D A S R Y T S S V T D P A T N S K Q V K V L Q L I N A F R F R G H Q E A N L D P L G L W K Q D R V  
61" Q T R E Y F R R L A K D A S R Y S S T I S D P D T N V K Q V K V L Q L I N A Y R F R G H Q H A N L D P L G L W Q Q D K V  
121' A D L D P A F H D L T D A D F Q E S F N V G S F A I G K E T M K L A D L F D A L K Q T Y C G S I G A E Y M H I N N T E E  
121" A D L D P S F H D L T E A D F Q E T F N V G S F A S G K E T M K L G E L L E A L K Q T Y C G P I G A E Y M H I T S T E E  
181' K R W I Q Q R I E S G A S Q T S F S G E E K K G F L K E L T A A E G L E K Y L G A K F P G A K R F S L E G G D A L V P M  
181" K R W I Q Q R I E S G -- R A T F N S E E K K R F L S E L T A A E G L E R Y L G A K F P G A K R F S L E G G D A L I P M  
241' L R E M I R H A G K S G T R E V V L Q M A H R G R L N V L I N V L G K K P Q D L F D E F S G K H K E H L G T G D V K Y H  
239" L K E M I R H A G N S G T R E V V L Q M A H R G R L N V L V N V L G K K P Q D L F D E F A G K H K E H L G T G D V K Y H  
301' M G F S S D I E T E G G L V H L A L A F N P S H L E I V S P V M G S V R A R L D R L A E P V S N K V L P I T I H G D A  
299" M G F S S D F Q T D G G L V H L A L A F N P S H L E I V S P V V I G S V R A R L D R L D E P S S N K V L P I T I H G D A  
361' A V I G Q G V V Q E T L N M S Q A R G Y E V G G T V R I V I N N Q V G F T T S N P K D A R S T P Y C T D I G K M V L A P  
359" A V T G Q G V V Q E T L N M S K A R G Y E V G G T V R I V I N N Q V G F T T S N P L D A R S T P Y C T D I G K M V Q A P  
421' I F H V N A D D P E A V A F V T R L A L D Y R N T F K R D V F I D L V C Y R R H G H N E A D E P S A T Q P L M Y Q K I K  
419" I F H V N A D D P E A V A F V T R L A L D F R N T F K R D V F I D L V S Y R R H G H N E A D E P S A T Q P L M Y Q K I K  
481' K H P T P R K I Y A D R L E G E G V A S Q E D A T E M V N L Y R D A L D A G E C V V P E W R P M S L H S F T W S P Y L N  
479" K H P T P R K I Y A D K L E Q E K V A T L E D A T E M V N L Y R D A L D A G C V V A E W R P M N M H S F T W S P Y L N  
541' H E W D E P Y P A Q V D M K R L K E L A L R I S Q V P E Q I E V Q S R V A K I Y N D R K L M A E G E K A F D W G G A E N  
539" H E W D E E Y P N K V E M K R L Q E L A K R I S T V P E A V E M Q S R V A K I Y G D R Q A M A A G E K L F O W G G A E N  
601' L A Y A T L V D E G I P V R L S G E D S G R G T F F H R H A V V H N Q A N G S T Y T P L H H I H N S Q G E F K V Y D S V  
599" L A Y A T L V D E G I P V R L S G E D S G R G T F F H R H A V I H N Q S N G S T Y T P L Q H I H N G Q G A F R V Y D S V  
661' L S E E A V L A F E Y G Y A T A E P R V L T I W E A Q F G D F A N G A Q V V I D Q F I S S G E Q K W G R M C G L V M L L  
659" L S E E A V L A F E Y G Y A T A E P R T L T I W E A Q F G D F A N G A Q V V I D Q F I S S G E Q K W G R M C G L V M L L  
721' P H G Y E G Q G P E H S S A R L E R Y L Q L C A E Q N M Q V C V P S T P A Q V Y H M L R R Q A L R G M R R P L V V M S P  
719" P H G Y E G Q G P E H S S A R L E R Y L Q L C A E Q N M Q V C V P S T P A Q V Y H M L R R Q A L R G M R R P L V V M S P  
781' K S L L R H P L A I S S L D E L A N G S F Q P A I G E I D D L D P Q G V K R V V L C S G K V Y Y D L L E Q R R K D E K T  
779" K S L L R H P L A V S S L E L A N G T F L P A I G E I D E L D P K G V K R V V M C S G K V Y Y D L L E Q R R K N N Q H  
841' D V A I V R I E Q L Y P F P H Q A V Q E A L K A Y S H V Q D F V W C Q E E P L N Q G A W Y C S Q H H F R D V V P F G A T  
839" D V A I V R I E Q L Y P F P H K A M Q E V L Q Q F A H V K D F V W C Q E E P L N Q G A W Y C S Q H H F R E V I P F G A S  
901' L R Y A G R P A S A S P A V G Y M S V H Q Q Q Q D L V N D A L N V N  
899" L R Y A G R P A S A S P A V G Y M S V H Q K Q Q Q D L V N D A L N V E

FIG. 2

[88.2% / 407 aa]

1' MSSVDILVPDLPESVADATVATYHKKPGDAVSRDEVIVEIETDKVVLEVPASADGVLEAV  
.....  
1' MSSVDILVPDLPESVADATVATYHKKPGDAVVRDEVLEIETDKVVLEVPASADGILDAV  
61' LEDEGATVTSRQILGRLKEGNSAGKSSAKAESNDTTPAQRQTASLEEESDALSPAIRR  
.....  
61' LEDEGTTVTSRQILGRLREGNSAGKETSASEEKASTPAQRQQASLEEQNNDALSPAIRR  
121' LIAEHNLDAAQIKGTGVGGRLTREDVEKHLANKPQAEKAAAPAGAATAQQQPVANRSEKR  
.....  
121' LLAEHNLDASAIGKGTGVGGRLTREDVEKHLAKAPAKE--SAPAAAAAPAAPALAARSEKR  
181' VPMTRLRKRYAERLLEAKNSTAMLTTFNEINMKPIMDLRKQYGDAFEKRGVRLGFMSFY  
.....  
179' VPMTRLRKRYAERLLEAKNSTAMLTTFNEVNMKPIMDLRKQYGEAFEKRGVRLGFMSFY  
241' IKAVVEALKRYPEVNASIDGEDVYHNYFDVSIIVSTPRGLVTPVLRDVALSMADIEKK  
.....  
239' VKAVVEALKRYPEVNASIDGDDVYHNYFDVSMVSTPRGLVTPVLRDVTLMADIEKK  
301' IKELAVKGRDGKLTVDLTGGNFTITNGGVFGSLMSTPIINPPQSAILGMHAIKDRPMAY  
.....  
299' IKELAVKGRDGKLTVEDLTGGNFTITNGGVFGSLMSTPIINPPQSAILGMHAIKDRPMAY  
361' NGQVVILPMMYLALSYDHRLIDGRESVGYLVAVKEMLEDPARLLLDV  
.....  
359' NGQVEILPMMYLALSYDHRLIDGRESVGFLVTIKELLEDPTRLLLDV

FIG. 3

[95.1% / 41 aa]

1' MNLHEYQAKQLFARYGMPAPTYGACTTPREAEEAASKIGAG  
.....  
1' MNLHEYQAKQLFARYGLPAPVGYACTTPREAEEAASKIGAGPMVVKCQVHAGGRGKAGGV

FIG. 4

[97.4% / 39 aa]

1' .....AFSVFRCHSIMNCVSVCPKGLNPTRAIGHIKSMMLQRSA  
.....  
181' FLIDSRDTETDSRLDGLSDAFSVFRCHSIMNCVSVCPKGLNPTRAIGHIKSMMLQRNA

FIG. 5

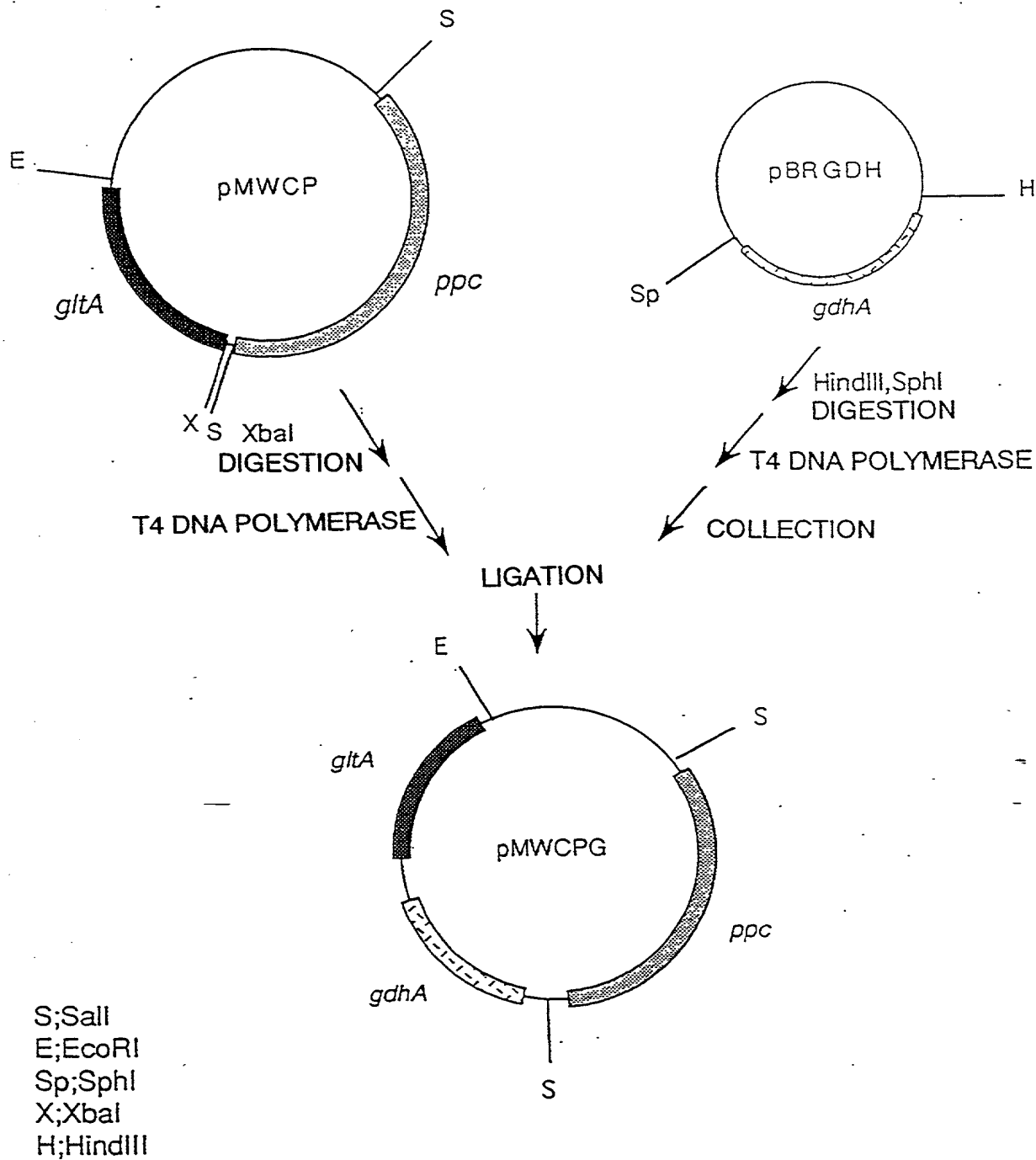


FIG. 6

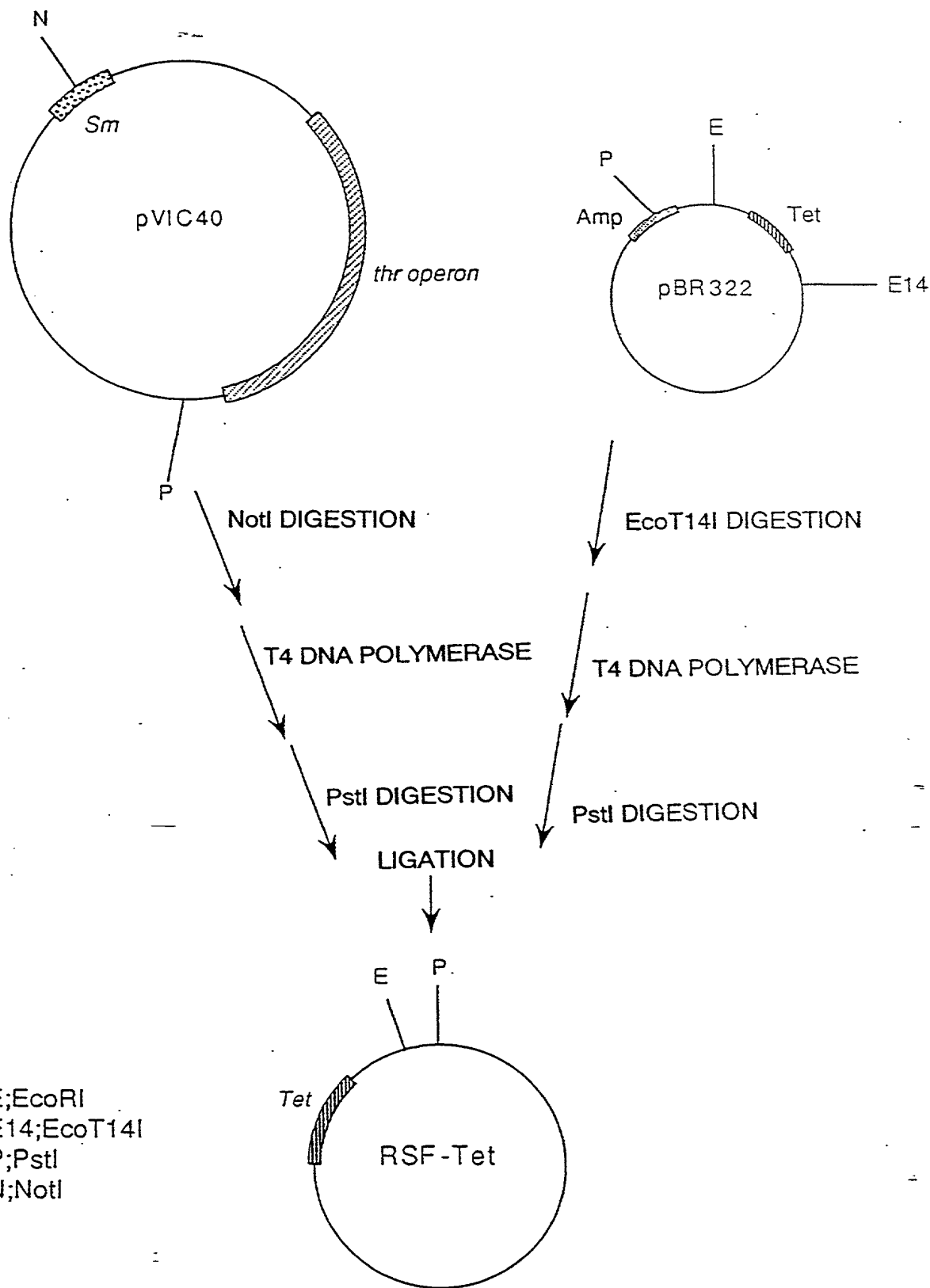
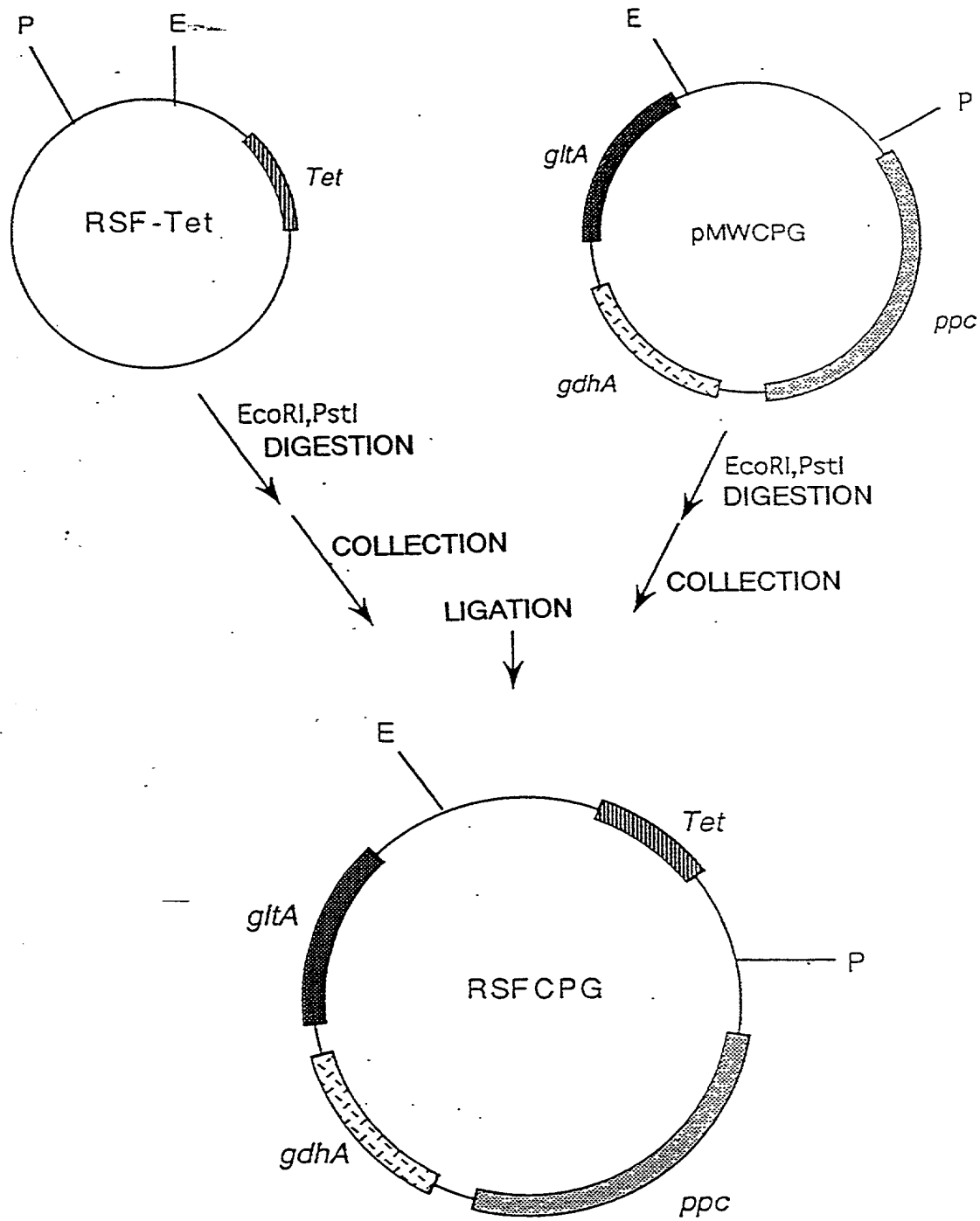


FIG. 7



E;EcoRI  
P;PstI

FIG. 8

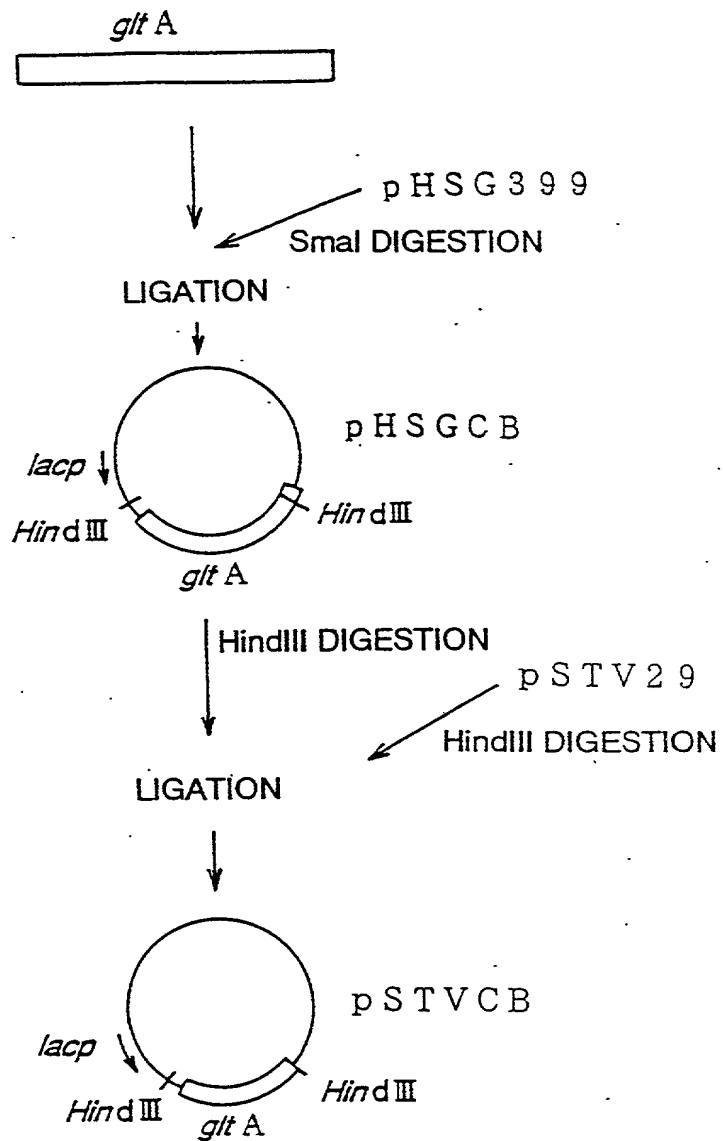


FIG. 9